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- EP 1 195 424 A1

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### EUROPEAN PATENT APPLICATION

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(33) process

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(54) A process for creating an olelln-righ hydrocarbon feedstock

(87) — A privises his cooling an identificationing hightime door facilities within the process comprising possing a hydropeoplish heddeteck transitioning time of more obline
through a moving time resolves containing a crystalline
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#### Describbles

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giocop The present invention relates to a province for granking an pikiling physication bedotoch which is solvence. As an expensive to province to the province of the provinc confirmed conactivity so select codificate the oldin contact of the felicitatives in the felicitative file.

(0,000) If is known in the artite use issuites to convertiging phalo parafiles hiterlighter provides, for exemplishin the establing the working of potentialism teedbaceda. White it is not the objective of derividency all back tians of the perethinh regressions, are convenent into idefine. Whi known in auth processes to use injectified elitrates for assemble of the MET or MET, Specific translighter designations "MET" and "MET" (seek representing a profession revisibilitie wheeld south tiga type sa established by the Scheduck Commission of the International Zooffa Accordation. Excrepted of a hydrollina derind die eilerblie einbledere oppt (MM eithreite eilerblie bid is MM eithere geentre voor en aget (MM eithre b) the ort. An example of a crystalline sheate of the MEL type is the asymbolic results 25M-11

1990). EP-A-0000100000ses the production of decision plottic physicial countries of thicknostions. EP-B-1934) (PD discloses) a process, by the appylasion of a hydrocarburneed as fosdatum billi light disfine, MEAN BRANCO idiscreases o process for the convension of C<sub>2</sub>, C<sub>3</sub>, paraffine hydrocarbring to polimborolish linedatocka, in polimbolish to Co, to Co, alebea. US-AutiliateSE deut SEA 058596 disclose the problemen of visiteis from periffers having herr to more carbon atoma. 194 A-461 11018 discribeas die prinception of aletins trust hydrogeneins being a steem esthehad usually acquaining phocamorous and H-ZSM-E-US-8-4010350 discloses a universe for the basinote of gas, old by do yygging ayar is silvelita ciyisiyat. (25) A-2155345 disolasiisi tha production cilifacutdylatiis tomi atapytami at is tradicia at hydrocydanie amhylnino princylania. Olikikeli 198800 diedweet the production of a teapelgiene by the catalytic creeking. ত গ্রহার তারগাঁহাছত

a la Kasra, attribi addibir diada prid sentda badilignavid kedisidis kidiligasi adtrat setik ke edi'ni akaani al 🕮 [\$100] entitieses state part partypagesegge and state state parties.

(10095) If it profess forewe that when prescribes sincepes are conclosed as contigers for the conversion of providing refer digities, such production is not eigens against him. The convenien tale passasses as the time on elegen increases; which is this in transation of cake (carbon) which is disposible on the cobliga-

(8609) These terrorm proceedes are employed is creek hadry obtailing thateoties into lighter includues, Harveyer when he deeled to produce propulate, his only are the wiside that also the placetor in the digetal the elippia cambiot. ig largi Par example, in on POC and actipoted progress output is 2.5 of N. The propriese auticitional be immessed to op in about 2-statis, propylana translita ECO undby introducing the brown ZSM-2 amakat lide the ECO und to "equaded out group propyrique from the meanning hydrocarbon tobdistock builtig etbolied. Not only its hid filomised in yield holds drifty USB belt til vidiblete mel pert tävischet. FRIER sich bete som dienes

(8007) There's peak increasing districted for propylative to particular for the manufacture of activated yields.

(19**00).** The patrichardical Industry is prespitly facility a major requision in propyrems symilability as a requir of rigi growth is propriese recrinebeed, respecially polypopylate. Traditional treshude to incresse groupsiene production are not entirally settetectory. For example, subditional neglition steam contident units which prinders about twice as enter satrytone, as propylone, are necessarily and the stanks dealighing bloky as well and encounted to a solitorial interest. tourd is vory filigh. Neghtino lotin deurophytion ne hloddistads fur elegem menhens bedees it die nedej fur the production of purphies in the retinary. Propiano dehydrogenologi gwes a high yleid of ungullegia figithe feedsteck (propiase) is only neet altective threby timbert proposes of the year, moting the propose propositive and leading the production of propyrous. Propygou is cursined from PCC units but at a rotatively fold and increasing discyletd has proven to be srepenaliza sna dishart. Ya tempara mataka mataka a sibadi na mara mana matama matama ka perimba ka pengapaan from sitryrensi ener finleine. Mieris kodifolitied willi dialisaiti erbektri, liha technolulja iz sigodristid alimesi ussisi sitryjelisi ga e readstruct which is at least as natiable as propyling.

30009]. Thus there is a more than a tight yield propored prohibben method which can readily be informated into a rollingly or pelipopreniosal plant, taking sidvantags of toodistocks that are less vietnative for the market prace (basing like sitemphies on the menop.

(2016) 18 A (2017) in the mente of Fine Research & A distribusion to be in a College of the Coll right in begeloeth at a gliddin at authe eith far eithafa ha weld witheraw et talke aandebegt fadhaan ha fafynigelo da decument that the catalyst has typed sixibility i.e. trigh activity over time; and a gistile diatio conveyeou and a stable product distribution was time, revertheless the catalyst stability attitive during improvement, particularly when higher inter temperatura within ihin tururd narga diselebati (500 tir 800°C), ara innphrysa in abnjunction with a singis rabidar. Non specification caremilifica the use of a focal trial revidor, altibugh à is disollisted this entitodor; best relater, at the raptinatas kabalyski tellanding bysa, ak al haldisekt blad relekter risay ba opidilayekt ter thek elikteralanding pittibese.

1001%; Durling proheerteen convergeen reactions, a darbinacteruse maretal, i.e., dose, can be formed abd deposited. tradition and indepths taylation and include traditional traditional polytical and including the registration according to the tif eclips, catabal, caritae, on the cotalyst and thereby followances, the extent of the hydrocarban monoration mechan, sing nonce, the conversion to dealerd praducts and ny printable. This processing dinamones not majorità no the estatyst

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insule in a mininging product distribution that effects the downstieum inschenation section, and the projets rate of unconvenient hydrocorbon tood. For most hydrocorbons universitin process the loss of solidly can be compensated by humisticity this feeding terrorisation up to a view whose undescrible side receiting theorems improvinged up to a view whose undescrible side receiting thecome intention or up to a view which proceedings improvinged to the process in the contract of the contract

[86] 3 Thirs, it is further known in hydrocarbon conversion processes partially in peganicials as causival using a minimal trial match. US-A-088800 discloses a precious of aperating a training physical processes impringing partially in match catalysis addition as a training reactival in of partially spant religion. Siz A 52 2000, discloses a process for continuous deleasement of hydrocarbon of a knowling reactival in of partially spant religion. US-A-53 161 discloses a moving tool by thospital information process incorporating purities regardation of a knowledge. US-A-53 16150 discloses a chief and the process in the process in the process in a partially spant regardation. US-A-53 16150 discloses a continuous process for the dunyer operation of partitions in page participal process in the partition. US-A-5370788 discloses a making the process of partition. US-A-5370788 discloses a making the process of the page partition. US-A-5370788 discloses the page to process of partition. US-A-5370788 discloses the page to process of page to page to

(\$4003). While the rise of a minimitation encountry period catalyst regarderation to reactivation has been known in the sente for each fine in the sentence when the sentence in the sentence of the sentence

• PDTAS — The elektromacking provides as discussed in APA district may be remised out as high payables temporalism, close to the forestraint of the individual classing of hydrometric procedures, trowners, origing the resonant disquarkings to order to comparable the loss of carables getally in the alleformacking processes which as it will today and elektropic side resplicit that comparable or the processes of the contract. Manager, the surface temperatures required to meet up the fixed northwest in the fixed registers as the hosses can become so high their function or the back stance.

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D015] When the aletin erecting process of Ein is 002011(i) supplied in a fixed bod needer the observed that at the electric control of the electric probabilist the procure entrandeded. This results in a rewest transports think in the CD fraction, Marcoless the atmitted processor takes higher id the start of the distinguish eyels? That often along the operation and alees designed product, property, decreases during the operation and size the electric property of a processor during the operation while processor probabilists of systems with a fixed medium and the property of the earlyed in a fixed medium and the control of authorises of probability of the control of the contr

19999 — It is all dilipat of the propert invertible or profile of probability to each valuable proteins probable or eathory and population for plants of a few or process when, in compass to the prior are processes refunded to serve, and plants of the probability comments of fine high terminal and in particular properties, and the probability comments of fine high terminal and in particular properties, and the process tree improved receipts according.

[9057] It is another abject of the theories to provide a process for producing distinct needing a high propyrous distinction of the process between the process and purity, must be decidedly cubit or highly distinct which which they process.

[1974] The transpot leveral in provides is trained to, instrung an incharactioning phydrocarbon teached, which is selected towards light abbreviation efficient, the process comparising phydrocarbon teached, towards are made in the training in a constalling solution through is training that median containing is constalled efficient solution from an MET appearable bloods toward a clicumfellaterial above rather than an MET appearable toward towards a clicumfellaterial and an interest towards towards a clicumfellaterial above rather than an interest being a constalling of the temperature of the median straining above toward physical physi

(9919) Professory, the cabilly-inregentication sees is controlled entently the subgroup what an entities basels to less
oner 10 with.

19000[ The present invention further provides a process for erecting an atomic containing nyomecobour teadspeck which is selected in translated that the difficient has process comprising pessing a bytecountrial featurable until interpretation of the process comprising pessing a bytecountrial feature to the process translation of the process of the process

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1982G - Proterably, and regimeraben ratio is controlled whereaby due triangens many is maintained concisment a valued
corresponding to the exemptionalities obtained in a freed and report in appropriate semi-freedom, particularly and residency
compliance, for example or level 64 edgs.

(DM22) — More preferrally, the regenyroulan rate is controlled when by the ethylene yidid on an elejfe begin lesse than 10 and .

— 19828 (—The present threshiotically business to be use of detailed ingertending of a receiving best research in the catalysis marking of an institutional ferential which is solicitied towards digital balance the catalysis against thin a business of an interpretable of properties of pulling satisfactors to assert out the plant points of the plant of

- 20020] - Professory, the petalies regeneration is ease employee to everage out the high elitylene yield control the nation genius and the low athylane yield claims that had potent approved in a liked best release.

[9985]. The beedstock having at looks  $Q_{\ell^*}$  hyphicisations, only be an effluent from a fluidised bust isotopic antickey. (FOC) pair is an all palmers.

(\$1008). The present repetition produtes a striction to by publicated tops of teaching of the detelopting the setation of the states of teaching devoluted detelops from, and feeding regionalise religion into, the coccepte recoverage recoverage attack compensation for less of ectably without reciping the teachin temperature, in persecuting a weing a moving bad resector in which the eaching transfers bornwise is consider to taking the eaching transfers bornwise in a passibility for resection assistent accordance to the passibility for resection assistent according to the each of the each o

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[9007] Whos croppoping a mining tred reactor in which hibbrostedly average to which have use ingenerated and consequence reliables to the consequence of the patelysis in the collegist reduction can be understood and consequence of the patelysis of the collegist reduction can be produced by the product of the collegist reduction can be product formation, observed at the start of the collegist cycle in fixed by treaters, can thus be medicined to increase are collegistic performance observed in fixed bad medical.

19929) – This bridges investition is presidential an Uncidiocal any by this translate that at a technical accidence in progression printy. net is proportion of propolate to die total Cy correspot the afficient, of afficient for wife, eigh preferably glad to georgeme. on altigistict gisted an en elektrifence traffer. To etti. Therebre due et a menning best reactor with catalyor regamenmen. condition there alreaded which to be enhanced on a continuous basic, more particularly by regulating the antilyst regamenthan accuriting at the desired proteighate fronty, odit arthrholly decomining on the allaylede eathery, which is the dátháirtí haith line páirlíodtáí dámhrennaí tátritírámanta for thá pragátitán af sáthpann mhhá aitheann, idhosabh inn sinirís tustayat ustatah tif distipriyaat best terusea is tegeneraled in is cissted at stem 20 ta 240 bisyas "Cliscipusidikat eestiist within which the order bush of catelyst in the rooting best reactor is regenerated depends on a manner of teature, minuting the nature of the buildings redayed. Temperature, CHSV, feedstock contour, also fundamentally, the cotables ap no bytiv prelyddo bere ylgoreddog lane, ychiad enefydodd in eddiele egeniwo eithdod ad am haifedd ei nollanenogen olelin basie, sits surdt sit tolenstrië higd porty prypjikhe til bu trechiced, with the reotogide essantriky reotogide. The teatrical primiero of rais principlena purity and antimatic nigh employe yield on an alidia Gesie dugle, the tribic perfect of a fixed food reactor, furficely, oprior the liter of its 190 args 20 gr 40 traces, of the relating creating processes, The greecomes the ferholical preblem treason in the pitur all, in perfectler in EP-4e/1921.179, of towareprince pures, and, obtionally siles, high elligiates which on de cliefuntessia, todicanny are suffity on the catelyes in produce exceptional enterment. dijadie punity properiones aipd optimialių lose iditadones curidoja, even tecesoptijos, pija ijagos,

\$4020] The produced empediment of the present importance in those are rittle at probable diding a country for the production of a cotalyte reaction of the production of a cotalyte reaction of the production of a cotalyte reaction of the production of the productio

(600). The present invention can driv, provide a process wherein traditionic hydrogenest structure (products) from refinery and petrodocical plants are notatively measured transmit in any into light meltins, but productely into propyleng, in one emboriment, the obligation flowtativity is preced over an MET type organizational discipling with a perfectly region of amount ratio at either at least 100 infelned ober noticentages studyington beginned to at least 100 infelned ober noticentages studyington beginned to a consideration training at majorial bears progenized by organization training at majorial bears progenized by organization and majorial bears progenized by organization and majorial bears progenized by organizations and majorial bears and majorial bears are progenized by organization and majorial bears and majorial bears are progenized by organization and majorial bears and majorial bears are progenized by organization and majorial bears are progenized by organized by organ

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[988] ( Include specification) the term "elliconsistential metable rain" is his need to mean the SUR studie gate of the discretel inteledate will truck the elektrical by the most supplied, in particular, for any addition between the supplied of the elektrical supplied of the supplied materials.

(\$602). This teeristers may be first either unablish or disting with epithen gies soon we have gien, in the laster case, the supplied pressure of the teerishment of the teerishment consistence the project pressure of the teerishment in the least gas.

\$1000. In secondary with the account invention, coursely of decline is performed in the second participant in a representation account was tracted into lighter decline and solutional into propriets. The feedback and others protocold have collisability the cores didinguished weight. Typically, the define constant are afficient a within an entitle more protocold at 10 and 10 and

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(\$1794)—In preficulate professed endocements of the present invention, the hydrocarbon hydrocarbon comprise  $C_{\chi}$  mix. There had refined endocement of colony units. Sown along maximing units create x wide variety of topicaness, incoming refined, (printens, trakens, trakens, incoming refined, (printens, trakens, trakens, trakens, incoming refined, proposition, and trakens, incoming refined, the proposition and lighter tracking, trakens, the first and FOC and regulation around the proposition, about the proposition had been had trakens as the proposition of the

19886] In assymbates with the present invention, the careful for the carefund of the platnic composes a caybelling silicate of the biful parties with the present invention, a silication against solicate in the biful parties are senting as silication of pay other silicate in the biful parties in that tentily Exemples of biful places are 2004-0 and silications as exemple, at an INEC collidate 2004-0 when is known to discust. Other exemples are borable to, and silications as accurated by the international Carrilla Association (Alacs of accidencing countering the 1997, Biful payor that.)

19998). The bretefring egysetting allosten have porce or imadicise autilise by unit bigged, thige and a high elitizar biombilion along evens.

[60177] Organisha elikusus are granecrous errabiling lungam; pulymore benedual a fregressyme of KOs telegraps leiked is such object to strang of augger inne, which is may be treated to g. A.B., are terrealent to g. Dec. St. St. The crystal shundred in support of augger inne, which is hadren and to the moment of telegraps ands are limited by the stranger of the organization of the object limit stranger of the stranger of the object limit stranger of the stranger of the organization of the object limit page and the page of the calling the calling the responsibility force of the following properties they broadly august at an error of the following properties they broadly a specific angust transported in the following properties they broadly to specify angust transported. They tranger in the state of the confidence of the following properties they because of the page of the

[9098] — The ungoladine oxidials released his striptible and obstainal exposition and is employed under patheuter to order conditions whosply the catalytic cristleng totality processible. Inflorent reaction treatweet one conservation the strangest

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ranter die prodees dendloors, helding so intel teriporation is sound 600 to 800°C, grefously from 620 to, 800°C, yet troup protectivy 640 to 220°C, and en abdin partial (meendre of libro 0°C to 2 bies, toos professial endand ethice) beste preceder, that chilt of the double trainal of an abdinity him fairfibility of skildly solitioned, beading in divident and bennenbarion. Purchanage, siphi-concellaçãos, autos is meetra discriptionale aguitarium. Prophisional nei tor exemple, directly producest by the constitut of his end of the productional top objects. Otalign prophise marking may be automature to constitut successivability of his one motorules discript band to be

William Comprise is the three yielding strang miderales distand broadings.

With such ingle all provides the control of the crystaline elisate catalyste, a stable plate composition are be within a light properties and or of stable of the crystaline elisate catalyste, a stable plate composition of the within and specific and the elisate transfer of the elisate and composition at the elisate transfer and the elisate transfer of the properties to the properties transfer to the elisate transfer of the elisate

tygicki adamaenilaliy avadisidis diirudiin taaca diirunisianaanmaanna ratio of tuurum 120, fina rumansurjajiy kyajiatiya. MET or yetalline sheete may be considerably a moorang province which columns the formherbus wordness in the mysophine subblid histophick and countrie the alumbran alone into cetahadral aluminum indea from at going peop agailing Attingglandis disenting step abarabura sincus are than adaly an unnodited; the mystaline sillede framework afmodus, Ti fám suminerprijalés: Brása proferios couris pemel obstructibilital fra párico or thánhisio in the ineigenants. The latifyte the district greeking transposes of districtions in resident. Accordingly, following the submance supp. The presidence isticate to subjected to an contradict stop energic ornerations is undirected from the paragonal transports. Nitiana is, at labat partiably becoment. The abgreed removed by a leaching way, of the emorphous equating from the 17th and in contended to early leaves and obtain subgroot normals additionally in childents of a good enyelarinle eliteria. In this way by temering altinoment from the MPI injectating elitera Hernéwork and bian ochocking judyskymie są sądeugągaj yddinaledia ir galiopidącią galyk geografy aft, eerog aft, mythrofferdit heigraf salioude timinational, the words onto contension the complete. This technical has problem at the complete, and improbe requests the ransaranga at hydrograp panetor reactings in the creaking paneess. The participated eciding ideally groups spicely digitally monophinously foroutional brothmas desirable in time typical true splings transports. This is because is the uppy expecting (hydoese hydrocenter)) sy liddig ceir criterylaethy ribr tha didee. Maeerlandy, the ridgethy of galley ynt thys yn y gylysi jian la hydrogen trepaler respianal apich tabula (citièse the subulty of the Milit catality) are picares citienghou, the whole pare strotture in Sie homowick. The transactive ellering literation was tray by increased by this process to e Nation of et least about 190, professible from about 100 to, 1000, mays preferably se least bild, yet mers preferably se lease 200, and novel preferably served 480.

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(1988). The Mist, or Mist anyeledine clinkin catalyki may be middle antisk baden, preferably an aparent bilicaer, and abique is a geologic shape, any arthroped pelikin. The market is serected to be recision to the best predicted optically and produce and in the subappreparably including process for the deline. The binder is an integral material selected transcription of the subappreparably includes particular production of the binder is an integral material selected branching attending most brought materials, or typic individuals of integral and made entire. The binder is arteriably simple most brought aluquing in define which is all first and in any in mode in latter are apply simple most brought in product in the binder which is applying a first production with the my object in applying the definition of the condition with the received material production of the condition of

18842] — The talefina gragations of findinally divided expelsition climbs material and the gragating with grants of the minder each way widely. Typically, the binder eachers from 6 to 60% by weight, more typically from 60 to 60% by weight beard in the delegation to find manager to the minder to mystelline shears and an analysis bags. Since a material transfer eachers are an analysis bags. Since a referred transfer to mystelline climbs.

(96/93). In moding the natisfied with a binder, discountries may be innovated into petiets, collected, but used into attack and petiet, alonged, in tention into a spray differ transfers. For proceeding the property inventory is preferred, the process and petien as very symmetries have a substantial and petiens are selected branch equal height and autopass, in a transfer in a serie for all arteristicates rejerve to the petiets are series for all arteristicates rejerve to the petiets are series for all arteristicates rejerve to the petiets are series and arteristicates.

19988]—In the patelyth carefully precise, are priviled carefulling are solvened in table to provide high educativity by waste proportion, a status about convergent next took, and a stable property digitalistic in the entropy. Such adjustance are formulated by the use of a line acid tentity in the contribution, a tugh spike against education with a low provider and a line acid tentity in the contribution, of at high spike against education with a low provider, a high spike and provide an exercising of high that are provided and provide an exercising of high that the contribution is a second to the provider and provide an exercise contribution for a second to the description of the formulation. The process distribution is a second to distribution transfer transfer transfer to a function to the demonstration.

of partition, sintensity and cold decination. The process of sixthing contribitions thus energy a night space detaility is now pressure and at high reported temperature. The riskly ranges from a to bland, preparably from to to bland, the processor processor ranges from to the processor of perfection processor from the topic processor is attention to a preparably to detail their processor is attention to appear the transfer of it. I that, The hydrocurbus to abstract a propositive processor to the test of the processor in the research to appear the transfer of the transfer of the research transfer ranges from the modified or distinct manifest goal of the region of the test obsolute transfer in the research ranges from the modified or distinct their process, which is the research process, because the process, which is the research in the contribution of the chickling process, which is the research of the process, which is the perfective to the process, which is the perfective to the process, which is the perfective to the process of the process, which is the perfective to the process, and the process of the perfective of the perfec

Figure the scentified representations in occurring with and entander until the present transition, in processing technical processing technical process in the process of the process in t

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Edgate 4 strates the religionship between the digita content or an obtains and date for processingle of a capability crediting princes; and

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#### EXAMPLES

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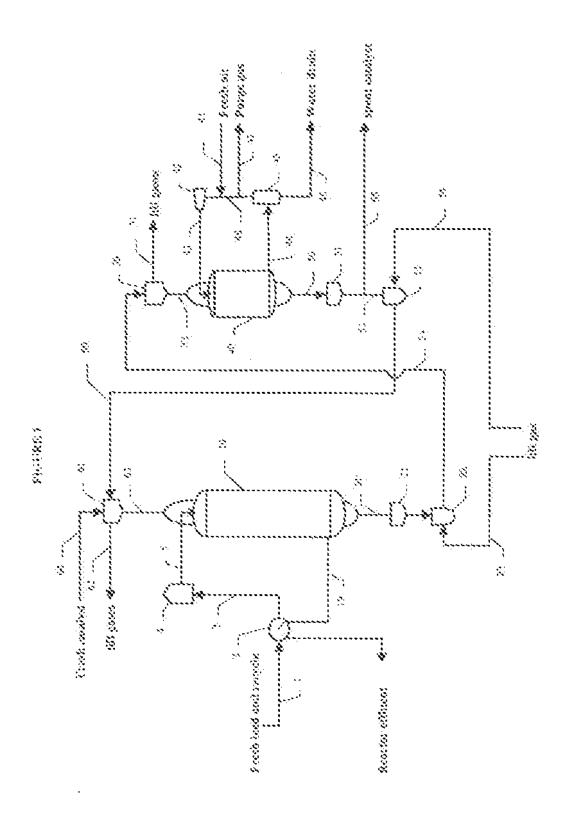
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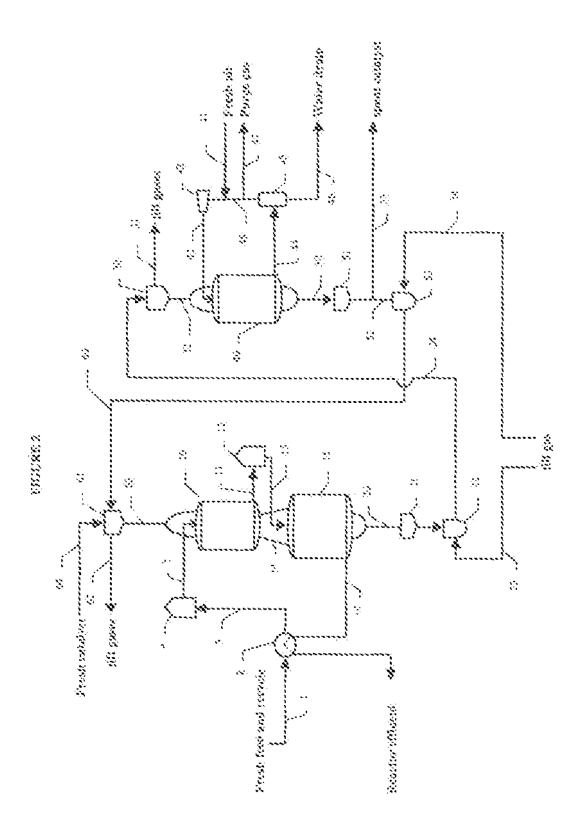
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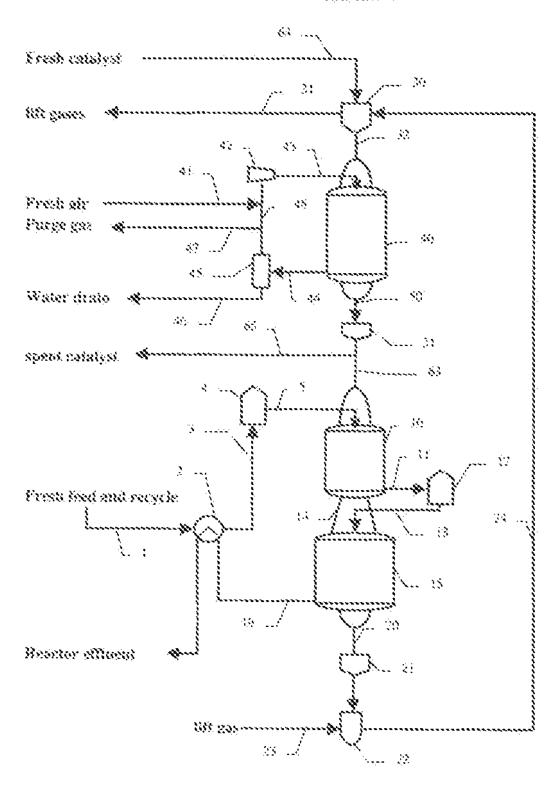
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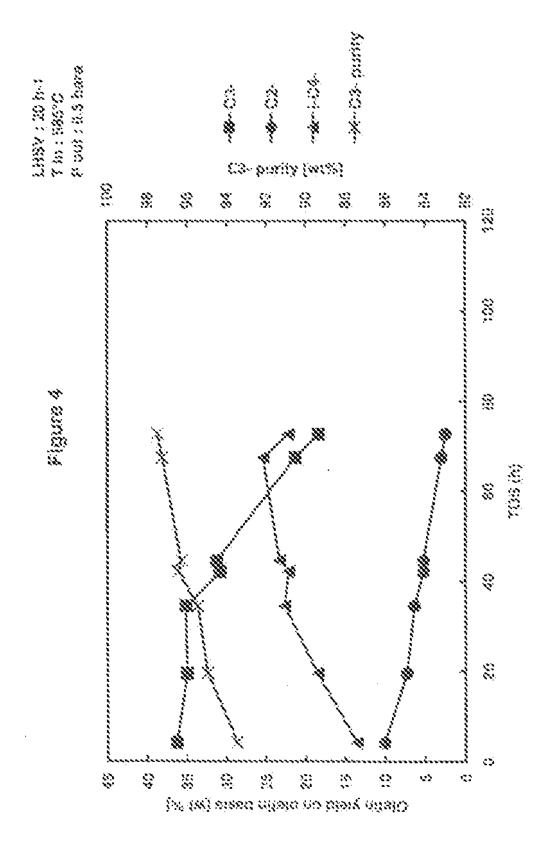
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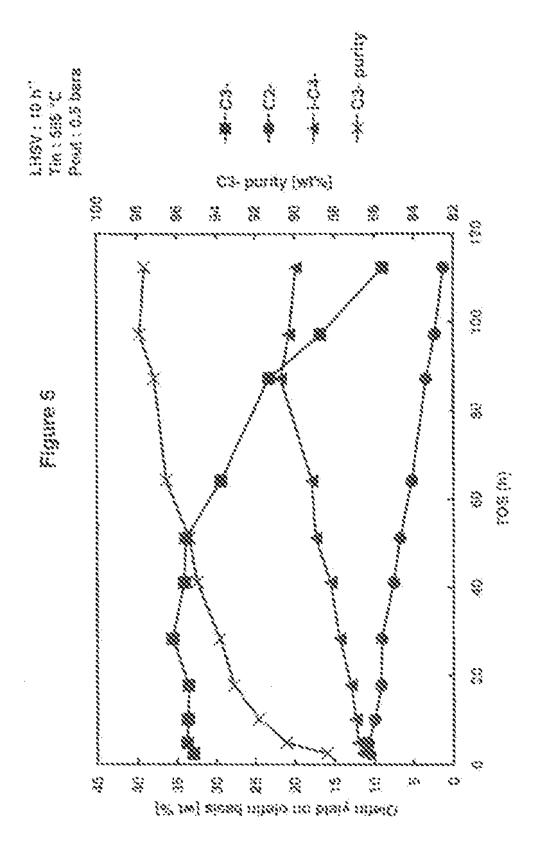


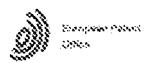


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